

Update on the DOE LED Lighting Facts[®] Program



D&R International

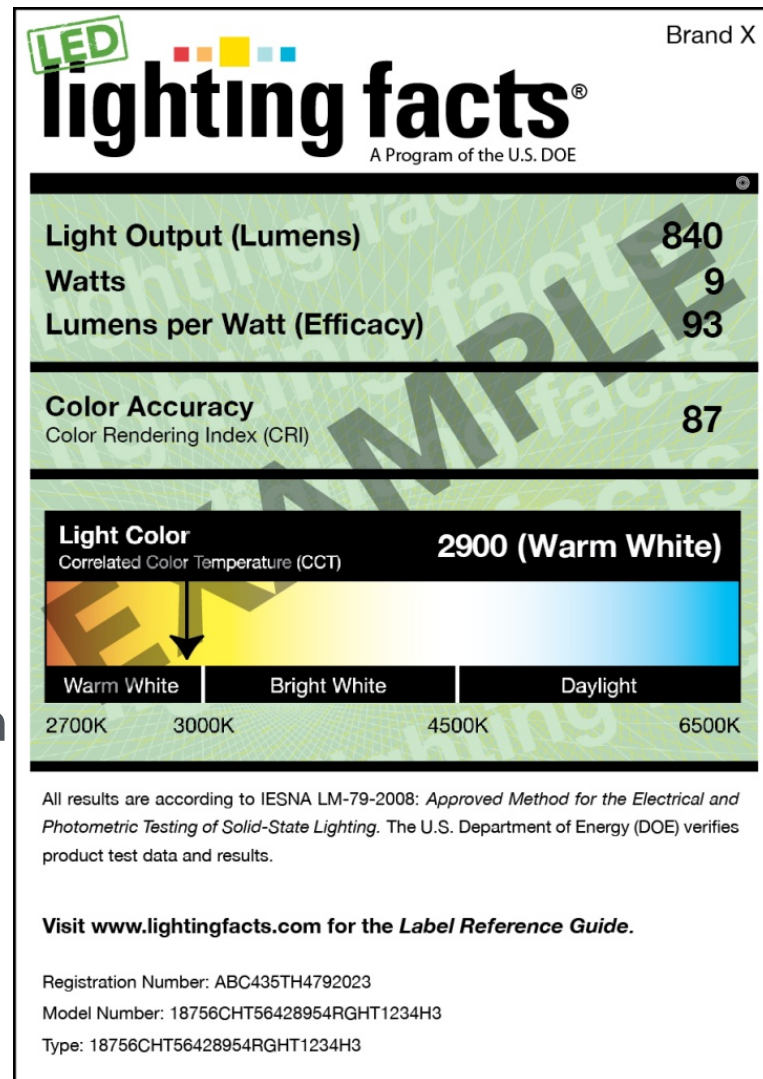
- What is LED Lighting Facts?
 - The label
 - The product database
 - The partners
- Program evolution—where have we been?
- What's Next?
 - Product List Integrity
 - Quality Assurance Testing

- Department of Energy's (DOE) program for reporting LED product performance
- “Truth in reporting” labeling program
 - Third-party verification of data on the label
 - Assure buyers that product performance claims were not exaggerated
- Entirely web-based: www.lightingfacts.com



Performance Label for SSL

- Standardized summary of verifiable product performance data, measured by industry standardized testing
- Industry tool to help buyers
 - Resource to evaluate reported product performance against manufacturer claims
- Label and product list data backed by verification of performance testing
- Provides “apples-to-apples” comparison
- Open-access program and product database



- Single source for reliable product data
- Variety of search and information features
 - Product breakdown
 - Evaluation tools
 - Search tool
 - Search results/product summary

Lighting Facts® Products

Welcome to the Lighting Facts Product list! This is a complete list of solid state lighting products that have received a Lighting Facts label. This list also includes the verified performance information for each product.

There are several ways to search for specific products from this list:

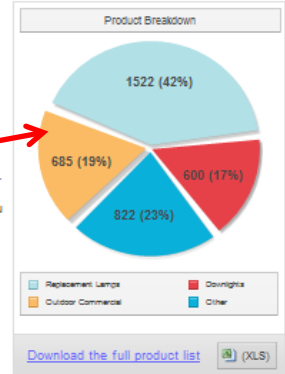
1. Use the drop down box to search by a specific product type.
2. Define specific criteria by adjusting the handles on the slider bars or by entering information into the blank fields.
3. Enter text in the search box, such as a manufacturer or model number.

Once you have narrowed your search criteria, click on the search button. You can further refine your search by clicking on the section headers.

Residential and Commercial Product Performance Scales

Lighting Facts has two tools for comparing the performance values of LED and incandescent lighting technologies for the five characteristics identified on the Lighting Facts label.

- [Residential](#) (24 KB, PDF)
- [Commercial](#) (132 KB, PDF)



Lighting Facts® Products Search Tool

Show only fixture type: Recessed downlight

Light Output between 0 and 22800 lm

Watts between 0 and 500 W

Lumens per Watt between 0 and 200 lm/W

Color Accuracy (CRI) between 0 and 100 (CRI)

399 Products Match

[Results](#)

Search Results Show 10 results per page

Organization	Brand	Fixture Type	Model Number
Cree LED Lighting	Cree LED Lighting	Recessed downlight	LR6
Qualifications:	Performance Score:	650 lm, 12 W, 54 lm/W, 92 (CRI), 2700 K	
Cree LED Lighting	Cree LED Lighting	Recessed downlight	LR6C
Qualifications:	Performance Score:	650 lm, 12 W, 54 lm/W, 92 (CRI), 3500 K	

www.lightingfacts.com/products

- Search by performance, application, or manufacturer.
- Download search results or full product list to Excel.
- View label information and additional data.

LED Lighting Facts® Products Search Tool

Show only fixture type:

Show only QA Verified products: ☐ Only products which have been verified through Quality Assurance Testing to match the manufacturer's original performance claims will be displayed.

Light Output between and lm

Watts between and W

Lumens per Watt between and lm/W

Color Accuracy (CRI) between and (CRI)

Light Color (CCT) between and K

5383
Products Match Your Criteria

Search Within Your Criteria:

Product and Partner Count

- 5430 Products!
- Growing List of Partners
 - Manufacturers: 388
 - Retailers: 256
 - EE Sponsors: 71
 - Lighting Pros: 243
 - Labs: 31



NORTHEAST ENERGY EFFICIENCY PARTNERSHIPS
FACILITATING PARTNERSHIPS TO ADVANCE ENERGY EFFICIENCY



BPA

GRAINGER®
FOR THE ONES WHO GET IT DONE



Energy Efficiency Programs List

- Search for incentives by state, program, or partner.
- Products that are designated as qualified for a program are drawn from the LED Lighting Facts product list, which includes more than **5,400** registered products.
- More than 50 incentive programs are listed with LED Lighting Facts.

www.lightingfacts.com/utilityprograms



LED lighting facts®
A Program of the U.S. DOE

Registered Users: [Login](#)
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Information For:
Manufacturers
Retailers & Distributors
Lighting Pros
EE Sponsors
Consumers
The Label
The Partners
The Products
EE Programs
About
Resources
Contact Us

Partner & Product Count
Manufacturers 343
Retailers & Distributors 245
Lighting Pro 223
EE Sponsor 59
Products 4528
Last updated 3/15/2012

Lighting Facts® Energy Efficiency Programs

Welcome to the Lighting Facts Energy Efficiency Programs list. Below is a list of incentive programs for LED products across the country. Click on the link below the *Programs* header for detailed program information. You will also be directed to the sponsoring organization's web site by clicking on any link under the *Sponsoring Organization* header.

Show programs in your state:

Sponsoring Organization	States	Program	Start Date	End Date
Ecos	TX	Oncor LED Lighting Program	1/1/2009	12/31/2012
Ecos	TX	CenterPoint Commercial LED Lighting Program	1/1/2011	12/31/2011
Efficiency Vermont	VT	Screw- & Pin-Based REPLACEMENT BULBS	1/1/2012	12/31/2012
Efficiency Vermont	VT	Recessed & Surface/Pendant Mounted DOWNLIGHT Fixtures	1/1/2012	12/31/2012
Efficiency Vermont	VT	TRACK Lighting Fixtures	1/1/2012	12/31/2012
Efficiency Vermont	VT	WALL-WASH Light Fixtures	1/1/2012	12/31/2012
Efficiency Vermont	VT	Portable DESK/TASK Light Fixtures	1/1/2012	12/31/2012
Efficiency Vermont	VT	UNDERCABINET Shelf-Mounted Task Light Fixtures	1/1/2012	12/31/2012
Efficiency Vermont	VT	REFRIGERATED & FREEZER CASE Light Fixtures	1/1/2012	12/31/2012
Efficiency Vermont	VT	DISPLAY CASE Light Fixtures	1/1/2012	12/31/2012

« FIRST < PREV Page: 1 2 3 4 5 6 NEXT » LAST »

Displaying 52 programs.

DISCLAIMER: The Department of Energy does not approve or endorse the products or services offered by any company that participates in the Lighting Facts® program. As such, any company that participates in the Lighting Facts program may not obtain or imply that DOE approves or endorses anything other than its commitment to energy efficiency.

- View the program to see incentive details.
- May include qualified product list.
- Links to website for more information.

lighting facts®

Program Details: "Screw- & Pin-Based **REPLACEMENT BULBS**" from Efficiency Vermont

Program Type: Prescriptive

Application: Commercial

Summary:

LED Replacement Bulbs listed below are eligible for the following Efficiency Vermont rebates:

- PAR 30/38: \$28 per bulb
- MR16/PAR20: \$20 per bulb
- A/Globe: \$20 per bulb
- Decorative: \$12 per bulb

Description:

These rebates are available through Efficiency Vermont [SMARTLIGHT](#) participating distributors.

ENERGY STAR qualified products are eligible for a 25% **REBATE PREMIUM**. Please visit the [ENERGY STAR Qualified Products List](#) for a complete list of approved products.

Start Date: 1/1/2012

End Date: 12/31/2012

You can link to further details about this program from the [provider's website](#).

Showing 1010 products. [Download](#)

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	Organization	Fixture Type	Brand	Model
	Acuity Brands Lighting	Replacement Lamp - Direct ▶	acculamp	ALSMR16 24 ▶
	Acuity Brands Lighting	Replacement Lamp - Direct ▶	acculamp	ALSP16 320L
	Acuity Brands Lighting	Replacement Lamp - Direct ▶	Acculamp	ALSP38 1200L
	Acuity Brands Lighting	Replacement Lamp - Direct ▶	acculamp	ALSP38 900L ▶

- Manufacturer reported performance data is checked against industry standard test reports from approved labs.

- **Five Mandatory Metrics**

- Lumens
- Watts
- Efficacy (lumens/watt)
- CCT
- CRI

- **Optional Metrics**

- Certifications (DLC/Energy Star)
- Zonal Lumen Density (0-60°)
- Zonal Lumen Density (60-90°)
- Zonal Lumen Density (90-120°)
- Zonal Lumen Density (120-180°)
- Input Voltage
- Power Factor
- Power Type (AC/DC)
- Duv
- R9
- THD

NEW!

- **Lumen Maintenance**
- **Warranty**
- **Dimming Information**

- Online verified product list
 - Extensive searchable product list
 - Independently verified product performance (not self-reported)
 - Displayed or saved search results
 - Required to qualify for some QPLs or rebate programs
- Program has changed to meet increased partner needs for evaluating products
 - EE tool for screening eligible products for utility programs
 - Enhanced search features
 - Full set of performance data on products (beyond 5 label metrics)
 - Quality assurance testing of products in the market

The program began as a way to encourage manufacturers to test their products to LM-79.

Manufacturer
submitted LM-79 to
LED Lighting Facts

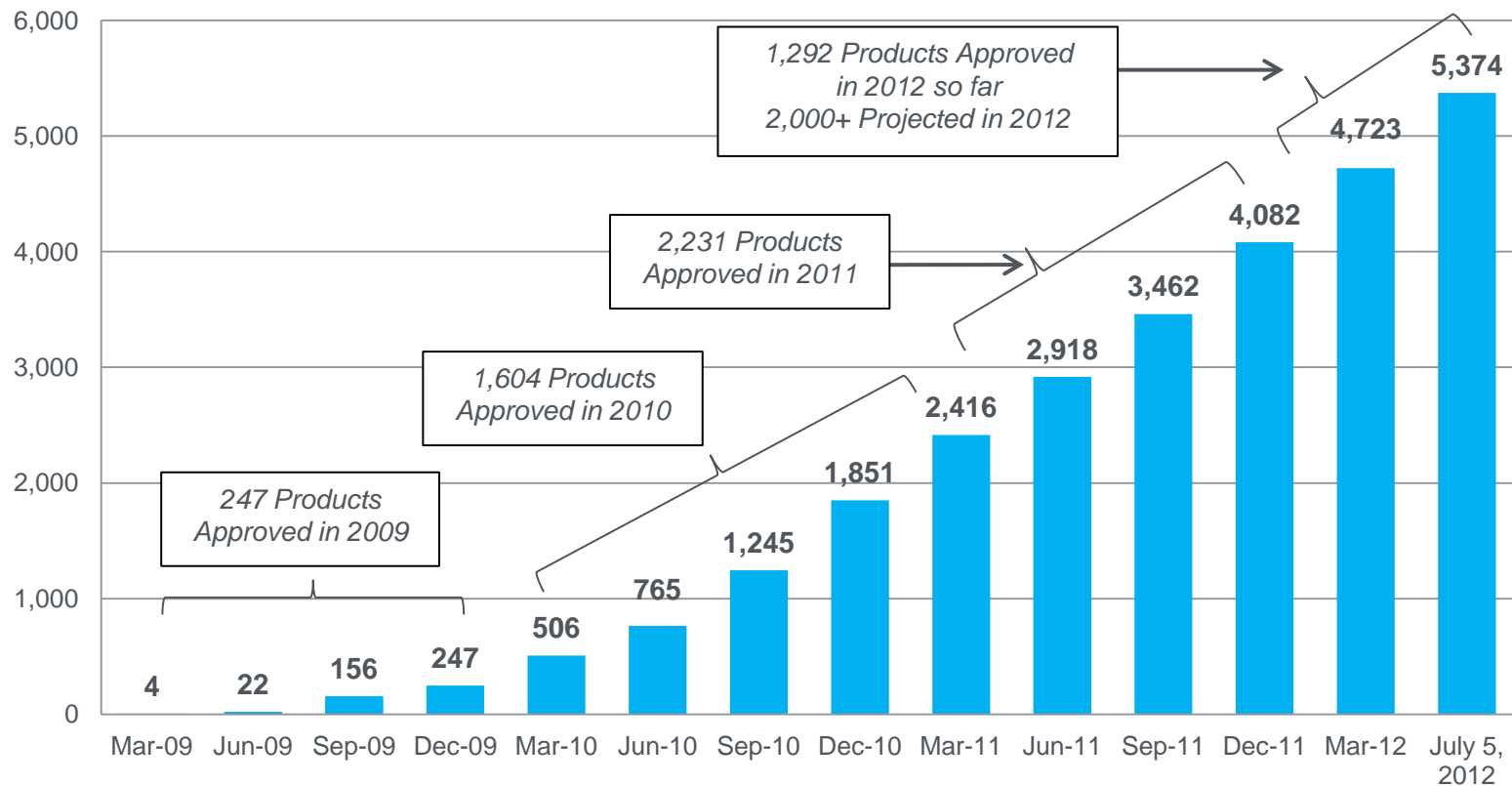


Product
transparency/ Buyer
assurance

But to keep pace with the rapid market and technological improvements, the program must place an increased emphasis on the quality of the data and validity of the products as they are represented in the market.

LED Lighting Facts Registered Products by Quarter

March 2009 - July 2012



Partners need LED Lighting Facts to do more to help them effectively identify and evaluate LED products:

- How do the products really perform in the market?
- Are all the products commercially available?
- How can products be compared using more than the 5 required label metrics?
- How can products be differentiated on the LED Lighting Facts Product List?



- LED Lighting Facts verifies 200-500 product submissions each month
 - Database represents full range of product types
 - Most manufacturers only report 5 required label metrics
- New integrity policies will ensure that the program reflects the changing nature of the LED product market:
 - Will reinforce the need for the LED Lighting Facts Product List to represent what is in the market today
 - Recognizes that products will become obsolete quickly in the fast-changing market



- Partners will need to update their product status on an annual basis to remain in the program
- New integrity measures will allow manufacturers to:
 - Confirm product status on an annual basis and update product information on an ongoing basis to reflect any status changes, including new product certifications (i.e., DLC, ENERGY STAR®), allowing for greater product differentiation and promotion.
 - Indicate whether a product is currently commercially available through regular market channels (or special order).



- LED Lighting Facts will audit a sample of the products on the list, across all product types, to verify that the products in the market perform as indicated (within reasonable tolerances)
- Test results from all products that are tested through the LED Lighting Facts will be available to CALiPER for future analysis and reports
- Products that are tested will receive status designations



Products that perform within the allowable tolerances receive a “Green Double Check”; searchable from the public Product List



Products that tested beyond applicable tolerances from the listing receive a “Red X”; taken off the public Product List



Products that cannot be verified receive a “Caution Triangle” because the manufacturer refuses to pay for QA testing when selected by the program

















- Products procured through normal market channels
- Multiple samples from multiple locations tested when possible
- Products performing outside allowable tolerances have opportunity to change claims or appeal
- Online product list indicate tested products and results

QA performance
verified or revised



QA performance
did not meet
original claims;
claims were not
revised



A Lighting Manufacturer	Brand X	Replacement Lamp - Directional (R20, PAR20)	PAR20-5-120
 QA Verified <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	Performance Specs:	350 lm 	8 W  44 lm/W  85 (CRI)  3000 K 
A Lighting Manufacturer	Brand X	Replacement Lamp - Directional (R20, PAR20)	PAR20-10-120
<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	Performance Specs:	171 lm 	5.3 W  32.3 lm/W  80 (CRI)  2705 K 
A Lighting Manufacturer	Brand X	Replacement Lamp - Directional (R20, PAR20)	PAR20-8-120
 QA Invalidated <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	Performance Specs:	201 lm 	4.81 W  42 lm/W  81 (CRI)  2718 K 

Quality Assurance Program

- Online product list will indicate tested products and results
- The designation earned from the Quality Assurance (QA) program will allow manufacturers to differentiate their products to a greater degree
- Buyers and specifiers can be sure that products are performing as promised

Approved Links
About
Resources
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Partner & Product Count	
Manufacturers	384
Retailers & Distributors	254
Lighting Pro	240
EE Sponsor	69
Products	5299
Last updated 8/19/2012	

LED Lighting Facts® Products Search Tool

Show only fixture type:

Show only QA Verified products: ☒ Only products which have been verified through Quality Assurance Testing to match the manufacturer's original performance claims will be displayed.

Light Output between and lm

Watts between and W

Lumens per Watt between and lm/W

Color Accuracy (CRI) between and (CRI)

Light Color (CCT) between and K

Search Within Your Criteria:

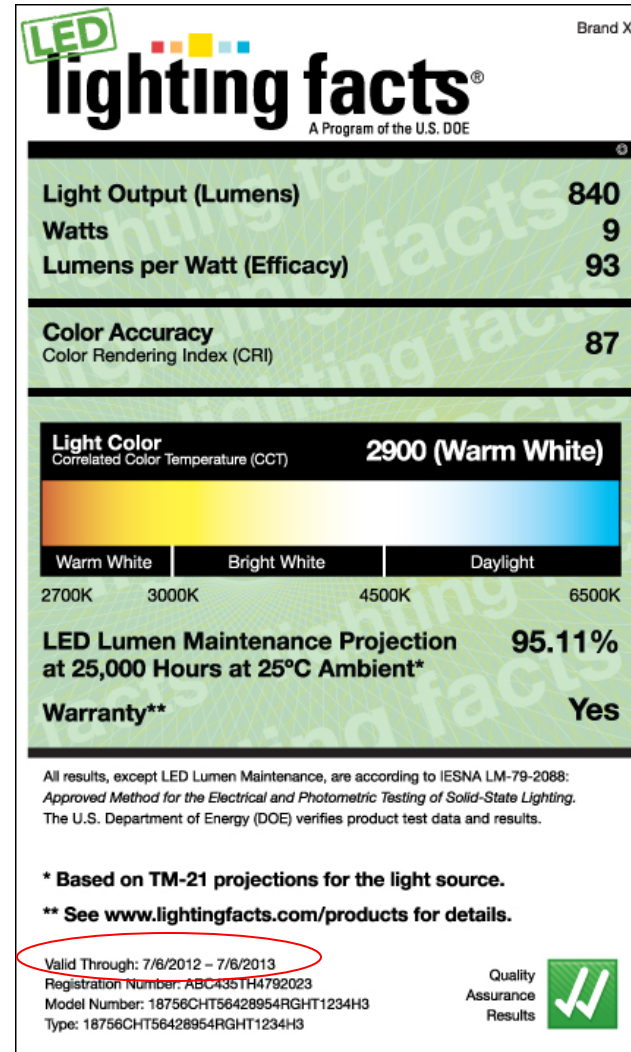
20 Products Match Your Criteria

Search Results: 20 Show 10 results per page

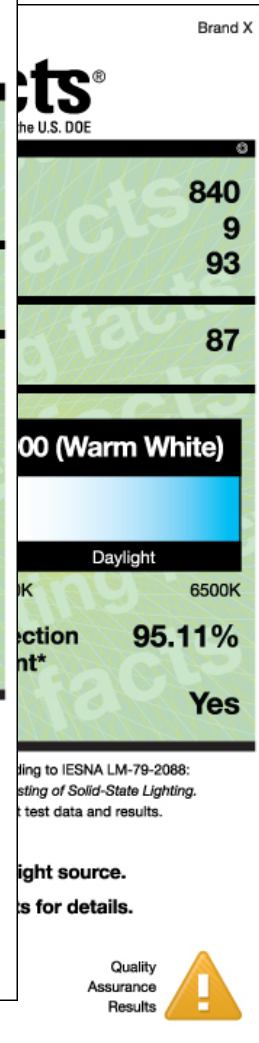
Organization	Brand	Fixture Type	Model Number
Habitex Corporation	ADESSO, Inc	Portable desk lamp	5028-22
<input checked="" type="checkbox"/> QA Verified		Performance Specs: <input type="text" value="110lm"/> <input type="text" value="3.5W"/> <input type="text" value="31lm/W"/> <input type="text" value="85(CRI)"/> <input type="text" value="4100K"/>	
APIDA USA Inc.	APIDA	Replacement lamp - Omnidirectional (A Lamp)	ACR19800WWDD
<input checked="" type="checkbox"/> QA Verified		Performance Specs: <input type="text" value="800lm"/> <input type="text" value="13.1W"/> <input type="text" value="60lm/W"/> <input type="text" value="79(CRI)"/> <input type="text" value="2900K"/>	
Nexus Lighting	Array Lighting	Replacement Lamp - Directional (R38, PAR38)	AE26PAR38183025
<input checked="" type="checkbox"/> QA Verified		Performance Specs: <input type="text" value="985lm"/> <input type="text" value="18W"/> <input type="text" value="55lm/W"/> <input type="text" value="84(CRI)"/> <input type="text" value="3000K"/>	
Nexus Lighting	Array Lighting	Replacement Lamp - Directional (R30, PAR30)	AE26R3083025
<input checked="" type="checkbox"/> QA Verified		Performance Specs: <input type="text" value="500lm"/> <input type="text" value="7.8W"/> <input type="text" value="64lm/W"/> <input type="text" value="84(CRI)"/> <input type="text" value="3000K"/>	

Benefits for All Partners

- Quality Assurance will benefit ALL partners:
 - **Buyers/Specifiers:**
Additional level of confidence in the performance data will benefit the product evaluation process
 - **EE Sponsor Partners:**
Verified data and Product List functionality will enhance program development
 - **Manufacturers:**
Greater differentiation and promotion of products



Type: 18756CHT56428954RGHT1234H3



- **E-Updates**
 - Contact info@lightingfacts.com to be added to the distribution list
- **Frequently Asked Questions**
 - www.lightingfacts.com/EnhancementsFAQ
- **Webinars**
 - **RSVP to info@lightingfacts.com** with the date and time in the subject line.
 - Look out for more dates/times throughout the year.
 - Upcoming Webinars:
 - Overview **for LED Lighting Facts Manufacturer Partners:**
 - July 26th from 2:00 – 3:00 EST
 - August 2nd from 2:00 – 3:00 EST
 - August 9th 2:00 – 3:00 EST
 - Overview **for LED Lighting Facts Retailer, Lighting Pro, and EE Sponsor Partners:**
 - July 26th from 1:00 – 2:00 EST
 - August 1st from 2:00 – 3:00 EST
 - August 8th 2:00 – 3:00 EST

Thank you!

Questions? Please contact:

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